



**CHECKLIST #0135 FOR THE APPROVAL OF:
METAL ROOF SYSTEMS (STRUCTURAL)**

- ☐ Basic Requirements Checklist.
- ☐ One set of the manufacturer's 'approval document' including:
 - ☐ Details of all sections with dimensions and thickness,
 - ☐ Assembly details including connections at eaves, ridges and seam, and
 - ☐ Fastener diagram.
- ☐ List of the manufacturing location(s) of product seeking approval
- ☐ Calculations verifying all data as follows:
 - ☐ Deflection shall not exceed $L/240$
 - ☐ Physical properties of the roof panel derived from the test data,
 - ☐ Fastener spacing and size, and
 - ☐ Provision for diaphragm action shall be indicated.
- ☐ One set of manufacturer's design drawings marked and verified by the testing laboratory.

The following current laboratory tests and reports in compliance with protocol TAS 301.

- ☐ Accelerated Testing of coating for 2000 hours per ASTM G152
- ☐ Salt Spray Testing of coating for 1000 hours per ASTM B117
- ☐ Uniform static air positive & negative pressure difference per TAS 125-03. See note #2
- ☐ Wind Driven Rain Test per TAS100-95 for slopes 2:12 and greater or FM4471 App. G for slopes less than 2:12. If system is to include a valley assembly TAS100-95 shall be required in addition to FM4471 App. G. See note # 3
- ☐ Impact test per TAS201-94. Only for thickness less than 22 gage

Notes:

- 1) System must be tested with the same approved fastener, no change in configuration washer and/or diameter will be accepted.
- 2) Calculated corner pressure and corresponding panel span shall be verified with an uplift test on one specimen following TAS 125-03.
- 3) If system approval is to include horizontal joints, two horizontal joints shall be incorporated in TAS 100-95 and one horizontal joint in FM4471 App. G of the test specimens.
- 4) If multiple manufacturing locations for the product being approved are to be included in the approval document, then testing must be performed and submitted for the manufactured product from each location.

